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J Biol Chem. 1991 Apr 25;266(12):7750-3.
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The pheR gene of *Escherichia coli* encodes tRNA(Phe), not a repressor protein.
J Biol Chem. 1990 Dec 15;265(35):21527-31.
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Nucleotide sequence and transcription of the phenylalanine and tyrosine operons of *Escherichia coli* K12. QH301.J73
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 PMID: 6809460 [PubMed - indexed for MEDLINE]

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Yeast chorismate mutase in the R state: simulations of the active site.
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Use of site-directed mutagenesis to identify residues specific for each reaction catalyzed by chorismate mutase-prephenate dehydrogenase from *Escherichia coli*.
Biochemistry. 1998 Nov 10;37(45):15703-12.
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A small, thermostable, and monofunctional chorismate mutase from the archaeon *Methanococcus jannaschii*.
Biochemistry. 1998 Jul 14;37(28):10062-73.
 PMID: 9665711 [PubMed - indexed for MEDLINE]

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Tyrosine and tryptophan act through the same binding site at the dimer interface of yeast chorismate mutase.
J Biol Chem. 1998 Jul 3;273(27):17012-7.
PMID: 9642265 [PubMed - indexed for MEDLINE]

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Thermodynamics of a transition state analogue inhibitor binding to *Escherichia coli* chorismate mutase: probing the charge state of an active site residue and its role in inhibitor binding and catalysis.
Biochemistry. 1998 Jun 23;37(25):9052-7.
PMID: 9636050 [PubMed - indexed for MEDLINE]

9: [Lin SL, Xu D, Li A, Nussinov R.](#) Related Articles, Links
Electrostatics, allostery, and activity of the yeast chorismate mutase.
Proteins. 1998 Jun 1;31(4):445-52.
PMID: 9626703 [PubMed - indexed for MEDLINE]

10: [Schnappauf G, Lipscomb WN, Braus GH.](#) Related Articles, Links
Separation of inhibition and activation of the allosteric yeast chorismate mutase.
Proc Natl Acad Sci U S A. 1998 Mar 17;95(6):2868-73.
PMID: 9501182 [PubMed - indexed for MEDLINE]

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J Biol Chem. 1998 Mar 13;273(11):6248-53.
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Structure. 1997 Nov 15;5(11):1437-52.
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Partial inactivation of chorismate mutase-prephenate dehydrogenase from *Escherichia coli* in the presence of analogues of chorismate.
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Investigation of the enzymatic mechanism of the yeast chorismate mutase by docking a transition state analog.
J Mol Biol. 1997 Sep 5;271(5):838-45.
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A glutamate residue in the catalytic center of the yeast chorismate mutase restricts enzyme activity to acidic conditions.

Proc Natl Acad Sci U S A. 1997 Aug 5;94(16):8491-6.
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Site-directed mutagenesis of monofunctional chorismate mutase engineered from the *E. coli* P-protein.
Bioorg Med Chem. 1996 Jul;4(7):1015-20.
PMID: 8831972 [PubMed - indexed for MEDLINE]

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Isolation of a cDNA from tomato coding for an unregulated, cytosolic chorismate mutase.
Plant Mol Biol. 1996 Jul;31(4):917-22.
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Exploring the active site of chorismate mutase by combinatorial mutagenesis and selection: the importance of electrostatic catalysis.
Proc Natl Acad Sci U S A. 1996 May 14;93(10):5043-8.
PMID: 8643526 [PubMed - indexed for MEDLINE]

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Crystal structure of the T state of allosteric yeast chorismate mutase and comparison with the R state.
Proc Natl Acad Sci U S A. 1996 Apr 16;93(8):3330-4.
PMID: 8622937 [PubMed - indexed for MEDLINE]

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